

MM35 auto-ranging meter



This autoranging multimeter is very easy to use. The range hold and change buttons give the option of full measurement control.

With its clear display, the bargraph to help with slowly changing readings and the function indicators, this is an instrument for everyone.

Display: 3.5 digit liquid crystal (LCD), maximum reading 3200 with floating decimal point. Updates at 2 times per second. A responsive, 34 segment analogue bargraph is shown below the digital read out.

Polarity: Automatic, implied for positive values, "-" to show negative readings.

Overrange: O.L is displayed.

Zero: Automatic.

Low battery indication: A " " symbol appears when the voltage drops below that required for correct operation.

Auto Power Off: After approx. 10 minutes.

Operating: 0 to 50°C @ < 70% relative humidity (RH).

Storage: -20 to 60°C, 0 to 80% RH (battery must be removed).

Temperature coefficient: Add (0.1 x % accuracy) per °C from 0 to 18°C, and from 28 to 50°C.

Maximum altitude: 2,000m.

Battery: 1 x 9 volt, type PP3, MN1604, NEDA1604, JIS006P, IEC 6F22.

Battery life: 500 hours, typical (Zinc - carbon).

Dimensions: 143 x 68 x 47mm (5.6 x 2.7 x 1.9 inches).

Weight: 206g (7.3oz) with battery fitted.

Included: Set of test leads, 9V battery (fitted) & user manual.

Complies: with 89/336/EEC (Electromagnetic Compatibility) and 73/23/EEC (Low Voltage) as amended by 93/68/EEC (CE Marking).

SPECIFICATIONS

DC VOLTS

Ranges: 320mV, 3.2V, 32V, 320V, 600V.

Resolution: 100μV

Accuracy: below 320mV, ± 1.2% rdg + 1 digit
3.2V range, ± 0.8% rdg + 1 digit
above 3.2V, ± 1.2% rdg + 1 digit

Input impedance: 1000MΩ up to 320mV, 11MΩ on 3.2V range
10MΩ on all other ranges

Overload protection: 600V DC or AC rms.

AC VOLTS

Ranges: 3.2V, 32V, 320V, 600V.

Resolution: 100μV

Accuracy: ± 2% rdg + 4 digits

Bandwidth: 3.2V, 32V ranges - 50Hz to 200Hz

320V, 600V ranges - 50Hz to 60Hz

Input impedance: 11MΩ on 3.2V range, 10MΩ on all other ranges

Overload protection: 600V DC or AC rms.

DC CURRENT

Ranges: 320μA, 3200μA, 32mA, 320mA, 10A

Accuracy: ± 2% rdg + 1 digit except 10A range
± 3% rdg + 3 digits on 10A range

Voltage burden: 320μA & 32mA ranges: 0.2V, all other ranges: 2V

Input protection: 0.5A: 250V fuse

10A, 600V fuse (10A input)

AC CURRENT

Ranges: 320μA, 3200μA, 32mA, 320mA, 10A

Accuracy: ± 2% rdg + 4 digits except 10A range
± 3.5% rdg + 4 digits on 10A range

Bandwidth: 50Hz to 2kHz

Voltage burden: 320μA & 32mA ranges: 0.2V, all other ranges: 2V

Input protection: 0.5A: 250V fuse

10A, 600V fuse (10A input)

RESISTANCE

Ranges: 320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 30MΩ

Resolution: 100mΩ

Accuracy: below 320Ω, ± 2% rdg + 3 digits

320Ω to 320kΩ, ± 1.5% rdg + 3 digits

above 320kΩ, ± 2.5% rdg + 3 digits

above 3.2MΩ, ± 5% rdg + 5 digits

Test current: 320Ω range < 700μA

3.2kΩ range < 130μA

32kΩ range < 13μA

320kΩ range < 1.3μA

3.2MΩ range < 0.13μA

Overvoltage protection: 500V DC or AC rms.

DIODE TEST

Test current: 500μA (at 0.6V forward voltage)

Resolution: 1mV

Accuracy: ± 10% rdg + 2 digits

Overload protection: 500V DC or AC rms.

CONTINUITY TEST

Range: 320Ω

Resolution: 100mΩ

Audible Tone: <20Ω

Test Current: <700μA

Overload protection: 500V DC or AC rms.

NOTE: This instrument complies with class II, overvoltage CAT III, 600V of the IEC1010-1 (EN61010-1) standard and pollution degree 2 in accordance with IEC-664 indoor use.